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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/752,434	01/06/2004	Yeshwanth Narendar	S1432-700819	3742
	7590 05/15/200 IDO & ANASTASI	EXAMINER		
RIVERFRONT		GROUP, KARL E		
ONE MAIN STREET, ELEVENTH FLOOR CAMBRIDGE, MA 02142		OK .	ART UNIT	PAPER NUMBER
			1755	
			MAIL DATE	DELIVERY MODE
			05/15/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)			
Office Action Summers	10/752,434	NARENDAR ET AL.			
Office Action Summary	Examiner	Art Unit			
The MAIL INC DATE of this communication	Karl E. Group	1755			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. lely filed the mailing date of this communication. O (35 U.S.C. § 133).			
Status		·			
1) Responsive to communication(s) filed on 11 Ap	oril 2007.				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4)⊠ Claim(s) <u>14,15,23,24,30-36 and 38-41</u> is/are pending in the application.					
4a) Of the above claim(s) <u>38-41</u> is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>14,15,23,24 and 30-36</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examiner.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	4) LInterview Summary Paper No(s)/Mail Da				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 2-23-07.	5) Notice of Informal Pa				

Election/Restrictions

1. Applicant's traversal of claims 38-41 is acknowledged. The traversal is on the ground(s) that claims 38-41 are directed to a product, as the elected invention. This is not found persuasive because Claims 38-41 and claims 14,15,23,24,30-36 are considered to be combination and subcombination. A restriction is proper if the combination does not require the particulars of the combination. Claims 38-41 do not require the particulars of claims 14,15,23,24,30-36.

The requirement is still deemed proper and is therefore made FINAL.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 15,31 and 32 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 15 fails to further limit the scope of claim 14 because claim 14 requires all impurities to be less than 400 ppm while claim 15 requires active impurities to be limited to 400 ppm, therefor the total impurity could be higher. Clearly limiting all impurities to less than 400 ppm is narrower than only limiting active impurities to 400 ppm as in claim 15. A dependent claim must further limit the claim from which it depends.

Claims 31 and 32 "active impurity" lacks antecedent basis.

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Claim Rejections - 35 USC § 102 and 103

- 4. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 5. Claims 14,15,23,24,33-36 rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Japanese documents 10-228974 and 07-328360, for reasons of record.
- 6. Claims 14,15,23,24,33,34,36 rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Japanese documents 07-328360, for reasons of record

The rejection of claims 30-32 over the Japanese documents is withdrawn in view of the amendment requiring a wafer boat which would require the specific physical structure of a wafer boat.

The rejection of claim 35 over 07-328360 is withdrawn in view of applicants' argument that the document includes Fe (Fe-Si) in an amount of 1wt%.

It should be noted the claimed are limited to recrystallized silicon carbide not silicon nitride and aluminum oxide as argued. Applicants' argument that the Japanese documents fail to teach impurities less than 400 ppm is not persuasive in overcoming the rejections. Applicants have failed to provide any evidence that any kneading equipment would introduce any impurities that are limited by the claims. Even stainless steel equipment rarely imparts iron impurities. Furthermore, the claims are silent as to what impurity is being limited. Furthermore, it is not clear where the '974 document teaches the addition of Fe.

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7. Claims 14,15,23,24,30-36 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Dubots et al (6,162,543), for reasons of record.

Applicants argue that Dubots et al teach limitations on the impurities but does not limit the total impurity. This is not persuasive in overcoming the rejection because the claims fail to define what is considered to be an impurity and what impurities are limited to 400 ppm. If all impurities were limited to 400 ppm then the claim would have to be greater than 999,600 ppm SiC.

It is also argued Dubots et al fail to teach interconnected porosity because the reference teaches bimodal SiC and carbon. It is not clear where it is taught the porous body of Dubots et al is bimodal (powders?). Column 5, lines 58-67, teaches a porous SiC body. Furthermore, Dubots teach further infiltrating the body, if there was only open surface porosity the body could not be infiltrated.

8. **THIS ACTION IS MADE FINAL**. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karl E. Group whose telephone number is 571-272-1368. The examiner can normally be reached on M-F (6:30-4:00) First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo can be reached on 571-272-1233. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Primary Examiner

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